

Variable

Actuating force 2500 N
Nominal voltage AC/DC 24 V
Control modulating DC (0)2...10 V

Nominal stroke 50 mm

Parameterisable globe valve actuator for 2-way and 3-way globe valves

Actuating time motor 35 s / 40 mm

Technical data sheet



Technical data

(44 s / 50 mm)

Nominal voltage requency 50/60 Hz Nominal voltage requency 50/60 Hz Nominal voltage range AC 19.228.8 V / DC 21.628.8 V Power consumption in operation 11 W Power consumption for wire sizing 18 VA Connection supply/control Cable 1 m, 4 x 0.75 mm² Parallel operation Yes (note the performance data) Actuating force motor 2500 N Positioning signal Y DC 010 V Positioning signal Y note Input impedance 100 kΩ Control signal Y variable Start point DC 032 V) Operating range Y DC 210 V Operating range Y variable Start point DC 0.58 V Position feedback U note Max. 0.5 mA Position feedback U note Max. 0.5 mA Manual override With push-button, can be locked Nominal stroke 50 mm Actuating time motor 35 s / 40 mm (44 s / 50 mm) Actuating time range Mactual autoring range manual (automatic on first power-up) Adaption setting range variable No action Adaption setting range variable No action Adaption setting range Maxation after pushing the gear disengageme	Electrical data	Nominal voltage	AC/DC 24 V
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Position indicationMechanically, 550 mm strokeSafetyProtection class IEC/ENIII Safety extra-low voltageProtection class ULUL Class 2 SupplyDegree of protection IEC/ENIP54Degree of protection NEMA/ULNEMA 2, UL Enclosure Type 2EMCCE according to 2014/30/EUCertification IEC/ENIEC/EN 60730-1 and IEC/EN 60730-2-14Certification ULcULus according to UL 60730-1A, UL 60730-2-14Add CAN/CSA E60730-1:02Certification 102			
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Protection class ULUL Class 2 SupplyDegree of protection IEC/ENIP54Degree of protection NEMA/ULNEMA 2, UL Enclosure Type 2EMCCE according to 2014/30/EUCertification IEC/ENIEC/EN 60730-1 and IEC/EN 60730-2-14Certification ULcULus according to UL 60730-1A, UL 60730-2-1414 and CAN/CSA E60730-1:02			
Degree of protection IEC/ENIP54Degree of protection NEMA/ULNEMA 2, UL Enclosure Type 2EMCCE according to 2014/30/EUCertification IEC/ENIEC/EN 60730-1 and IEC/EN 60730-2-14Certification ULcULus according to UL 60730-1A, UL 60730-2-14 and CAN/CSA E60730-1:02	Safety		
Degree of protection NEMA/ULNEMA 2, UL Enclosure Type 2EMCCE according to 2014/30/EUCertification IEC/ENIEC/EN 60730-1 and IEC/EN 60730-2-14Certification ULcULus according to UL 60730-1A, UL 60730-2-14 and CAN/CSA E60730-1:02			
EMCCE according to 2014/30/EUCertification IEC/ENIEC/EN 60730-1 and IEC/EN 60730-2-14Certification ULcULus according to UL 60730-1A, UL 60730-2- 14 and CAN/CSA E60730-1:02			
Certification IEC/ENIEC/EN 60730-1 and IEC/EN 60730-2-14Certification ULcULus according to UL 60730-1A, UL 60730-2- 14 and CAN/CSA E60730-1:02			
Certification UL cULus according to UL 60730-1A, UL 60730-2- 14 and CAN/CSA E60730-1:02			
14 and CAN/CSA E60730-1:02			
		Gerufication UL	
		Mode of operation	
Rated impulse voltage supply / control 0.8 kV		•	
nated impulse voltage supply / control 0.0 KV		Tated impuse voldye supply / collifor	0.0 KV

EVC24A-MF-RE	Globe valve actuator, param DC 24 V, 2500 N, Actuating t / 50 mm)	eterisable, modulating, AC/ ime motor 35 s / 40 mm (44 s
Technical data		
Safety Weight	Control pollution degree Ambient temperature range Non-operating temperature Ambient humidity Maintenance Weight	3 050°C -4080°C 95% r.h., non-condensing Maintenance-free 7.5 kg
0-1-1		
Safety notes	 conditioning systems and must especially in aircraft or in any of Only authorised specialists mainstitutional installation regulati The switch for changing the diradjusted only by authorised spin connection with frost protect The device may only be opene parts that can be replaced or re The device contains electrical aircraft of the device contains electrical aircr	ed at the manufacturer's site. It does not contain any
Product features		
Mode of operation	to the position defined by the pos	standard modulating signal of DC 010V and drives sitioning signal. The measuring voltage U serves for tor position 0100% and as slave control signal for
Parameterisable actuators	The factory settings cover the mo modified with the Belimo Service	ost common applications. Single parameters can be Tools MFT-P or ZTH EU.
Installation on third-party valves	manufacturers are comprised of universal valve stem adapter. Ad attach the retrofit actuator to the	ion on a wide range of valves from various an actuator, universal valve neck adapter and lapt the valve neck and valve stem to begin with, then valve neck adapter, connect to the valve and start ator can be rotated through 360° on the valve neck, ze of the installed valve.
Installation on Belimo valves		imo for mounting on Belimo globe valves. The n Belimo globe valves is technically possible.
Manual override	button is pressed or remains lock The stroke can be adjusted by us	n possible (the gear is disengaged for as long as the ked). sing a hexagon socket screw key (5 mm), which uator. The stroke spindle extends when the key is
High functional reliability		ed, requires no limit switches and automatically stops
Position indication		cally on the bracket with tabs. The stroke range goperation.
Home position	the actuator carries out an adapt feedback adjust themselves to the	is switched on, i.e. at the time of commissioning, ion, which is when the operating range and position
Direction of stroke switch	When actuated, the direction of s operation.	stroke switch changes the running direction in normal

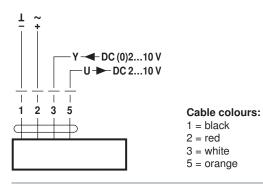
EVC24A-MF-RE	Globe valve actuator, parameterisable, modulating, AC/ DC 24 V, 2500 N, Actuating time motor 35 s / 40 mm (44 s / 50 mm)	BELIMO
Product features		
Adaption and synchronisation	An adaption can be triggered manually by pressing the "Adaption' PC-Tool. Both mechanical end stops are detected during the adapting range). Automatic synchronisation after pressing the gearbox disengagen configured. The synchronisation is in the home position (0%). The actuator then moves into the position defined by the positioning A range of settings can be adapted using the PC-Tool (see MFT-F	otion (entire setting nent button is ng signal.
Accessories		
	Description	Туре
Electrical accessories	Description Connecting cable 5 m, A+B: RJ12 6/6, To ZTH/ZIP-USB-MP	Type ZK1-GEN
Electrical accessories		
Electrical accessories	Connecting cable 5 m, A+B: RJ12 6/6, To ZTH/ZIP-USB-MP Connection cable 5 m, A: RJ11 6/4, B: Free wire end, To ZTH/ZIP-	ZK1-GEN
Electrical accessories	Connecting cable 5 m, A+B: RJ12 6/6, To ZTH/ZIP-USB-MP Connection cable 5 m, A: RJ11 6/4, B: Free wire end, To ZTH/ZIP- USB-MP	ZK1-GEN ZK2-GEN
Electrical accessories Service Tools	Connecting cable 5 m, A+B: RJ12 6/6, To ZTH/ZIP-USB-MP Connection cable 5 m, A: RJ11 6/4, B: Free wire end, To ZTH/ZIP- USB-MP Auxiliary switch, 2 x SPDT, add-on, grey	ZK1-GEN ZK2-GEN S2A-H
	Connecting cable 5 m, A+B: RJ12 6/6, To ZTH/ZIP-USB-MP Connection cable 5 m, A: RJ11 6/4, B: Free wire end, To ZTH/ZIP- USB-MP Auxiliary switch, 2 x SPDT, add-on, grey Description Service Tool, for MF/MP/Modbus/LonWorks actuators and VAV-	ZK1-GEN ZK2-GEN S2A-H Type

Electrical installation

$\underline{\mathbb{N}}$	Notes	Connection via safety isolating transformer.Parallel connection of other actuators possible. Observe the performance data.
		Direction of stroke switch factory setting: Actuator spindle retracted.

Wiring diagrams

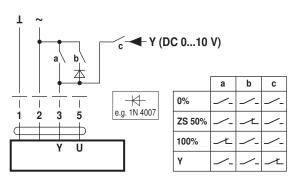
AC/DC 24 V, modulating



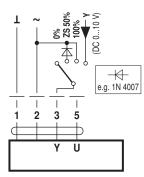
Functions

Functions with basic values (conventional mode)

Override control with AC 24 V with relay contacts



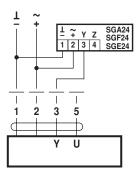
Override control with AC 24 V with rotary switch

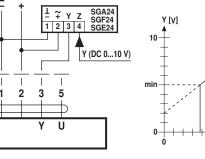


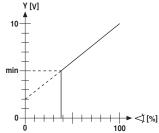


Functions

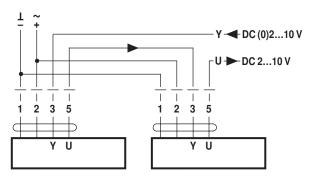
Remote control 0...100% with Minimum limit with positioner SG..

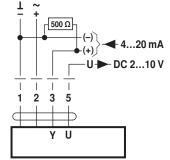






Follow-up control (position-dependent)





Control with 4...20 mA via external resistor

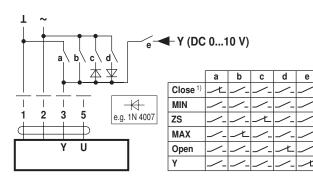
Caution: The operating range must be set to DC 2...10 V. The 500 Ω resistor converts the 4...20 mA current signal to a voltage signal DC 2...10 V

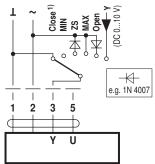
Functional check

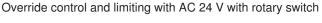
⊥ ~ +	
	Procedure
 	 Apply 24 V to connection 1 and 2 Disconnect connection 3: with upwards direction of motion: closing point at top with downwards direction of motion: closing point at bottom Short circuit connections 2 and 3: Actuator runs in the opposite direction

Functions for actuators with specific parameters (Parametrisation with PC-Tool necessary)

Override control and limiting with AC 24 V with relay contacts





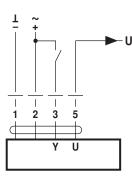


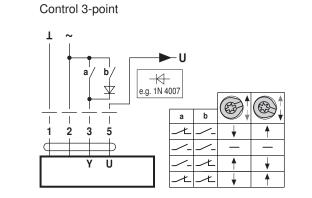
1) **Caution:** This function is only guaranteed if the start point of the operating range is defined as min. 0.5 V.



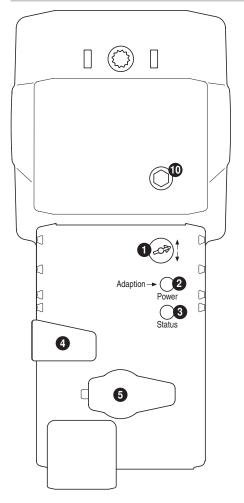
Functions

Control open-close





Operating controls and indicators



Direction of stroke switch

Switch over: Direction of stroke changes

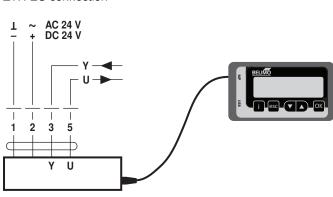
2	Push-button and LED display green	
	Off:	No power supply or malfunction
	On:	In operation
	Press button:	Triggers stroke adaptation, followed by standard mode
3	Push-button and	LED display yellow
	Off:	Standard mode
	On:	Adaptation process active
	Press button:	No function
4	Gear disengagen	nent button
	Press button:	Gear disengages, motor stops, manual override possible
	Release button:	Gear engages, synchronisation starts, followed by standard mode
5	Service plug	
	For connecting part	rameterisation and service tools
1	Manual override	

Manual override

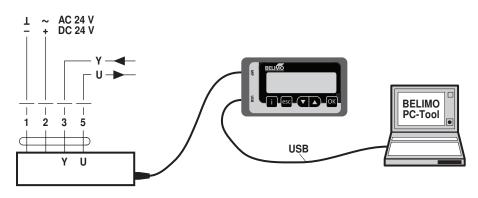
Clockwise: Actuator spindle extends Counterclockwise: Actuator spindle retracts



Service		
Â	Notes	 The actuator can be parameterised by PC-Tool and ZTH EU via the service socket.
	Service Tools connection	
		ZTH EU connection



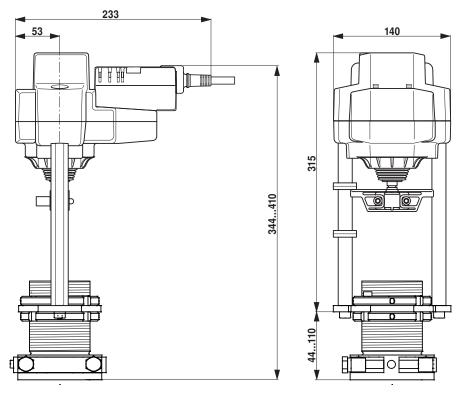
PC-Tool connection





Dimensions [mm]

Dimensional drawings



Further documentation

· Installation instructions for actuators